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Case K 216

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of: Albert Hofmann et al

Title: DEVICE FOR THE RECONDENSATION, BY MEANS OF A
CRYOGENERATOR, OF LOW-BOILING GASES EVAPORATING FROM A
LIQUID GAS CONTAINER

Commissioner for Patents
Alexandria, VA 22313-1450

January 15, 2004

SIR:

INFORMATION DISCLOSURE STATEMENT - SECTION 1.97(b)

Under the provisions of 37 C.F.R. Section 1.56, and in accordance with 37 C.F.R. Sections 1.97 and 1.98, applicants' representative hereby submits US Patent & Trademark Office Form PTO-1449. Copies of the references cited therein are submitted for consideration in the examination of the above-referenced patent application. It is respectfully requested that they be made of record, along with whatever references the Examiner may find in the course of a search, should the Examiner consider them material to the subject application.

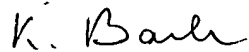
The references have been cited in the international Search report. None of the references was marked "X" as being pertinent with respect to the invention as claimed.

The references do not disclose that in a device for the re-condensation of low-boiling gases evaporating from a liquid gas container having a tubular neck in which a cold head of a cryo-generator is supported, the cold head includes a pulse tube with a heat exchanger and a cold area having an annular projection extending into an annular recess formed in a heat transfer ring mounted in the tubular neck in closely spaced relationship

with the walls of the annular recess so as to provide a gas passage therethrough and permitting relative axial movement between the cold head and the liquid gas container.

This Statement is hereby submitted under Section 1.97(b) since it is being submitted concurrently with the filing of the above-referenced application.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "K. Bach".

Klaus J. Bach, Reg. No.: 26832

FORM PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. K 216		SERIAL NO.	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				FIRST NAMED INVENTOR: Albert Hofmann			
(Use several sheets if necessary)				FILING DATE		GROUP	
U.S. PATENT DOCUMENTS							
EX. IN.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILINGDATE IF APPROPRIATE
		4 570 678	02/18/86	Ziemek et al.			
		4 046 407	09/06/77	Porreco			
		3 670 772	06/20/72	Ziemek et al.			
		3 179 549	04/20/65	Strong et al.			
		5 584 184	12/17/96	Inaguchi et al.			
		4 223 540	09/23/80	Longsworth			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
		0 905 524	03/31/99	EP			X
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
		G. Popsecu et al. "A CRTICAL REVIEW OF PULSE TUBE CRYOGENERATOR RESEARCH", <i>Int. J. of Refrigeration</i> 24 (2001) pages 230 - 237.					
		Chao Wang, "HELIUM LIQUEFACTION WITH A 4K PULSE TUBE CRYOCOOLER", <i>Cryogneics</i> 41 (2001) 491 - 496					
EXAMINER				DATE CONSIDERED			

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.